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Data Sheet: T1F-16DA-1-DS Rev B

Terminator I/O

T1F-16DA-1 Analog Output Module (use base T1K-16B or T1K-16B-1)

Insert Module into Base

Install Assembly on DIN Rail

Slide Assembly into Position

Module Specifications

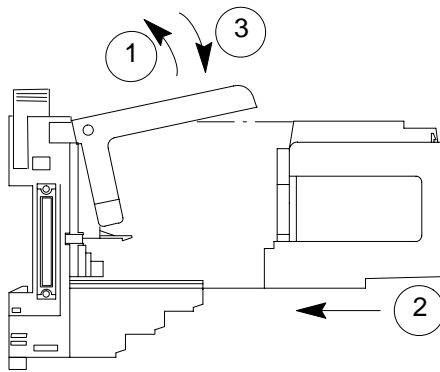
Wiring and Dimensions

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Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

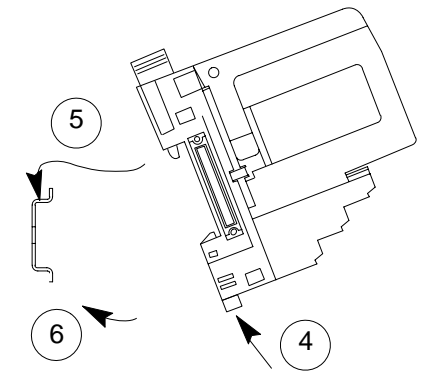
If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call us at 770-844-4200.

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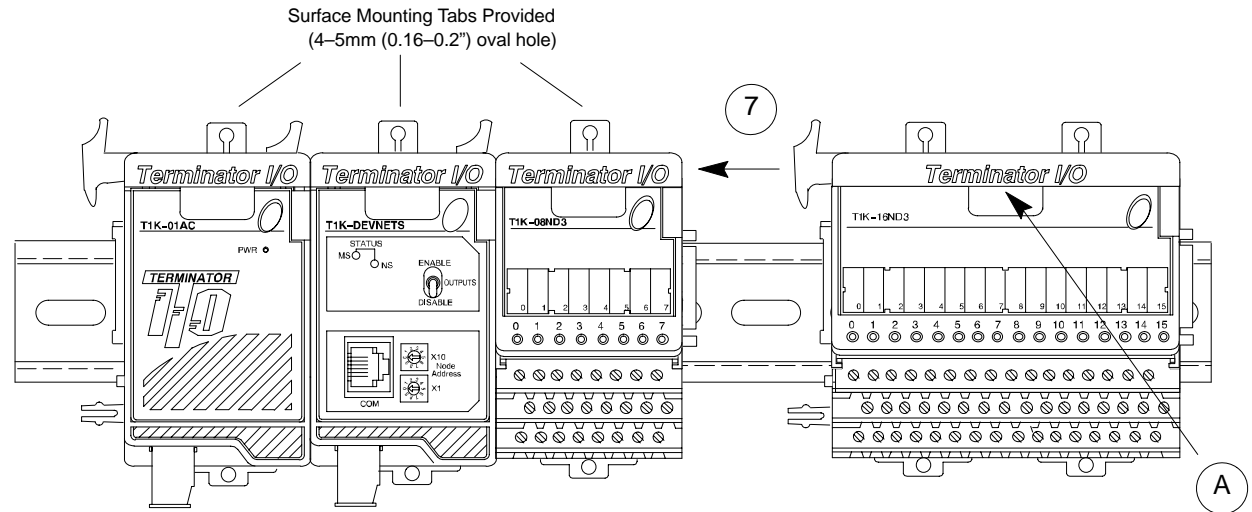
Insert Module into Base

1. Pull base arm back to allow space for module to enter base
2. Align module slides with base track
3. Press module firmly into base



Install Assembly on DIN Rail

4. Make sure the locking tab is in the latched position
5. Hook upper tab over upper flange of DIN rail
6. Tilt assembly toward DIN rail until module snaps securely to DIN rail



Slide Assembly into Position on DIN Rail

7. Slide the module assembly on the DIN rail until the clip arm attaches securely to the adjacent module.

A. To remove the module from the base, lift the center of the base arm slightly outward and upward to release the module. Lifting the base arm further will eject the module.
B. To remove the module assembly from the DIN rail, lift the clip arm up and slide the module assembly away from the adjacent module. Use a small screwdriver to pull the locking tab to the down position.

Specifications

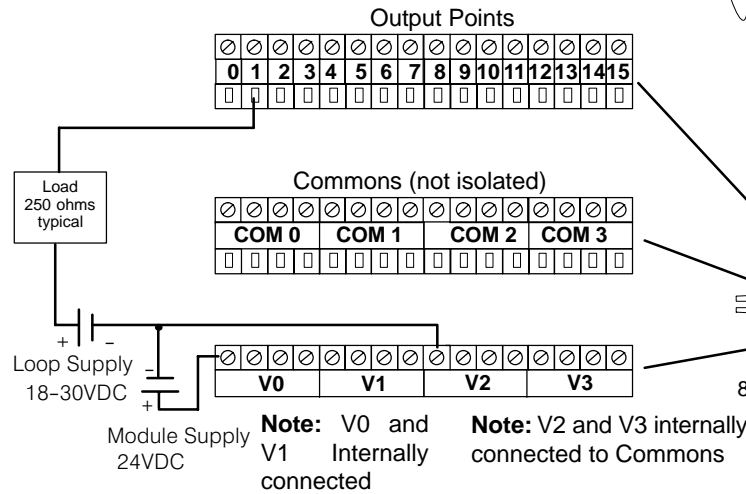
T1F-16DA-1 16 Channel Current Analog Output Rev B

Number of Channels	16
Output Ranges	0-20mA, 4-20mA
Output Type	single ended, 1 common
Resolution	12 bit (1 in 4096)
Max. Loop Supply	30 VDC
Peak Output Voltage	30 VDC
Max. Load (ohm) / Power Supply	620/18V, 910/24V, 1200/30V
Min. Load (ohm) / Power Supply**	0/24V, 350/30V @ 40°C 250/24V, 600/30V @ 60°C
Linearity Error (end to end)	+ / - 2 count max. + / - 0.050% of full scale max
Conversion Settling Time	400us max. full scale change
Full Scale Calibration Error	+ / - 12 counts max.
Offset Calibration Error	0 - 20mA: + / - 5 counts max. 4 - 20mA: + / - 6 counts max.
Accuracy vs. Temperature	+ / - 50 ppm/°C full scale calibration change
Max. Full Scale Inaccuracy (% of full scale) all errors included	0.2% @ 25°C, 0.4% @ 60°C
Master Update Rate	16 channels per scan max.
Output Points Required	512 discrete pts. or 16 dwords (d (double) word = 32 bit word) Network Interface dependent
Base Power Required	75mA @ 5VDC
External Power Supply	21.6-26.4VDC, 150mA class 2
Operating Temperature	0 to 60°C (32 to 140°F)
Storage Temperature	-20 to 70°C (-4 to 158°F)
Relative Humidity	5 to 95% (non-condensing)
Environmental Air	No corrosive gases permitted
Vibration	MIL STD 810C 514.2
Shock	MIL STD 810C 516.2
Noise Immunity	NEMA ICS3-304
Weight	172g

**max. allowable output power dissipation. For example, at 60°C and 24VDC, there must be a load of at least 250 ohms on the output circuit. Smaller loads will damage the analog output circuit.

Wiring & Dimensions

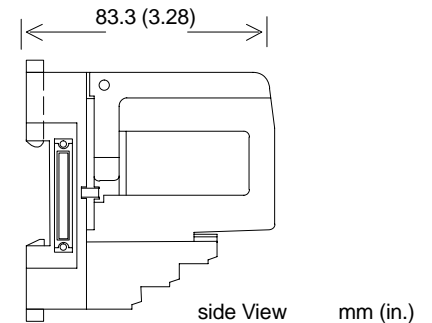
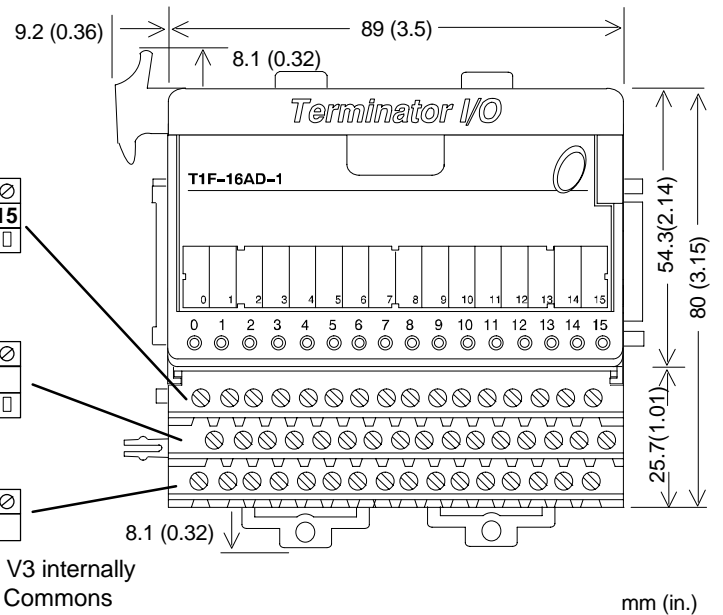
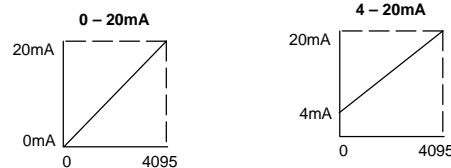
Note: This module requires software setup via the Module Control Byte. Refer to the Memory Map Chapter in the T1K-INST-M Installation and I/O Manual.



NOTES:

- 1: Shields should be connected to the 0V terminal of the module or the 0V of the power supply.
- 2: Unused current outputs should remain open (no connections) for minimum power consumption.

Output Signal Ranges



Equivalent Output Circuit

